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INFORMATION ON THE "STALIN" DAM IN BULGARIA

Research engineers report that the Iskur River has the capacity to supply over one million kilowatt-hours of electric power and to irrigate the fields around Sofia, and that, combined with the Malki Iskur River, it can irrigate over 1,500,000 decares of land in the Danube lowlands.

The water of the Iskur River will be exploited chiefly by means of the "Stalin" Reservoir near Gorni Pasarel, Samokov Okoliya.

The wall of the "Stalin" Dam will surround part of the Samokov fields, including lands around Kalkov, Shishman, and Gorni Pasarel. The reservoir has a capacity of 670 million cubic meters of water collected from 1,045 /sic/ kilometers of rivers, and a working volume of 548 million cubic meters. The annual flow into the reservoir will be 380 million cubic meters of water. The iron tank of the reservoir will have a capacity of 61 million cubic meters.

Water from the artificial lake will flow through the 5.5-kilometer tunnel to the first hydroelectric power station, which will have an output capacity of 26,000 kilowatts. An equalizing reservoir having a capacity of 2,500,000 cubic meters of water and an operating volume of 800,000 cubic meters of vater will be built below the power station. It will be used for the independent operation of the "Pasarel" VETs (Hydroelectric Power Station). Water from the "Pasarel" VETs will flow through a tunnel, also 5.5 meters in length, to the "Kokalyane" VETs near the Kokalyane Hills, and then to the "Pancharevo" VETs. An equalizing reservoir with a capacity of 6,600,000 cubic meters and an operating capacity of about 600,000 cubic meters will be built at the "Kokalyane" VETs. The water, after being used by two power stations, will be used for the municipal needs of Sofia and for irrigation purposes.

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The "Pancharevo-Peturch" Canal will be navigable from its junction at the "Pancharevo" VETs to Pavlovo. The canal will be used for irrigating the land between Pavlovo and Peturch. Water from the two canals flowing from the artificial lake near Pancharevo and from the equalizing reservoir at the "Kokalyane" VETs will irrigate 754,000 decares of land.

 $^{\circ}$  About 3 cubic meters of water per second will flow through a special water main from the "Pasarel" VETs to Sofia.

The total power of the "Pasarel," the "Kokalyane," and the "Sofia" VETs will be 54,000 kilowatts, with an annual maximum power output of over 200 million kilowatt-hours.



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